



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H129638-A

Mode: Highway

Status: Submitted

US-70

From/Cross Street: Lynn Road

Specific Improvement Type: 2 - Upgrade Arterial to Freeway/Expressway

To: Miami Blvd

Project Category: Statewide Mobility

Length: 1.58

TIP#: U-4720A

Fully Funded in Draft STIP? No

Cost to NCDOT: \$109,020,000

Description:

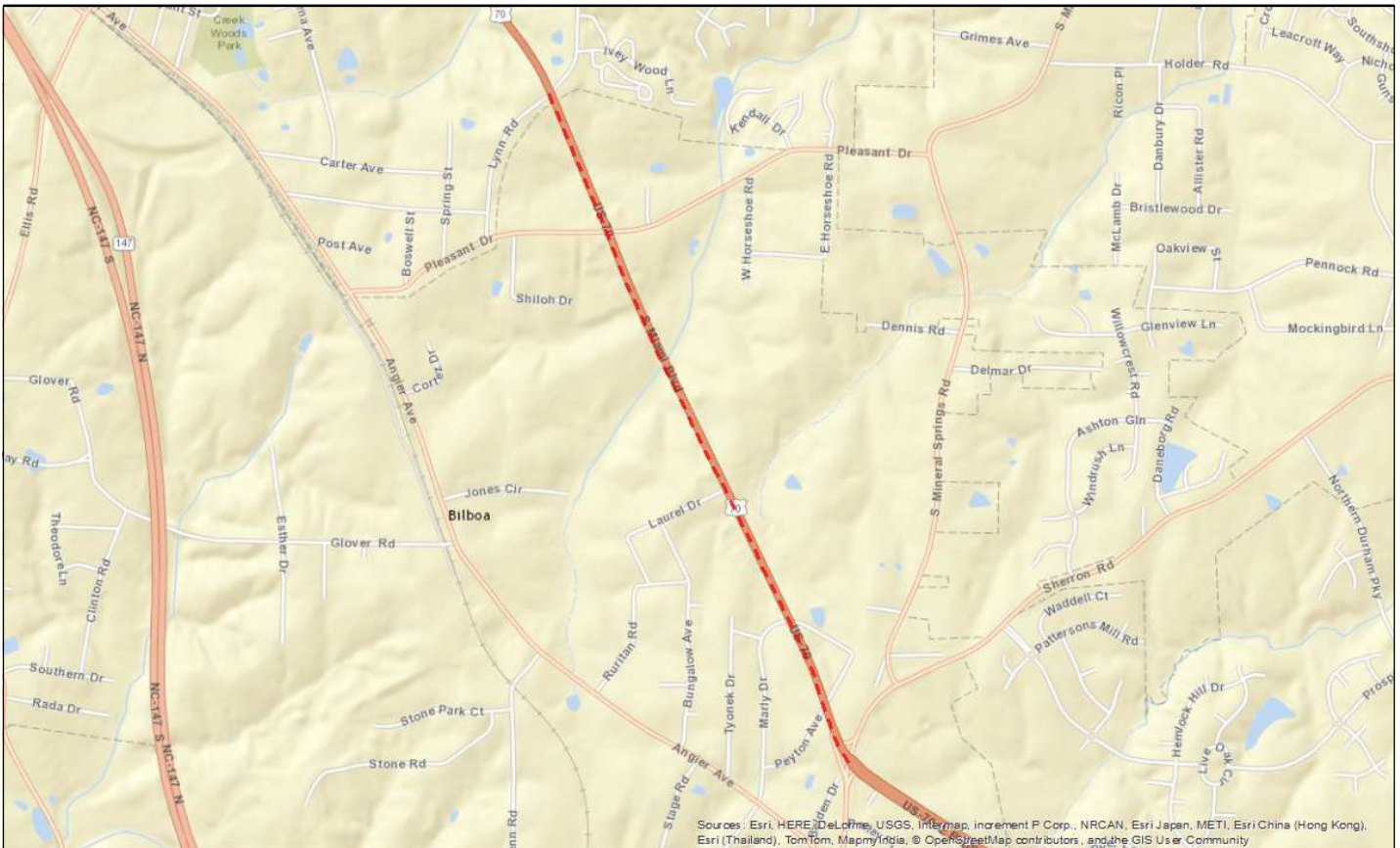
Upgrade Roadway to Freeway

Division(s): Division 5

County(s): DURHAM

MPOS(s)/RPO(s): Durham Chapel Hill Carrboro MPO

Project Location



Statewide Mobility Total Score: 41.21

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Economic Competitiveness (10%) 26.20 Multimodal + [Freight & Military] (20%) 13.74 Congestion (V/C) (30%) 84.36 Safety (10%) 92.25 [Travel Time] Benefit/Cost (30%) 4.36	N/A	N/A
Totals: Weight: 100% Weighted Score: 41.21		

Regional Impact Total Score: 63.09

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
[Travel Time] Benefit/Cost (25%) 4.36 Accessibility / Connectivity (10%) 85.85 Congestion (V/C) (25%) 84.36 Safety (10%) 92.25	Percent: 15% Points: 54	Percent: 15% Points: 100
Totals: Weight: 70% Weighted Score: 39.99		

Division Needs Total Score: 26.97

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%) 84.36 Safety (10%) 92.25 [Travel Time] Benefit/Cost (20%) 4.36	Percent: 25% Points: 0	Percent: 25% Points: 0
Totals: Weight: 50% Weighted Score: 26.97		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	47
Length (miles):	1.58
Facility Type:	Arterial
Access Control:	Partial
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	4
Roadway has Curb & Gutter?	No
Volume (AADT):	36793.91
Capacity:	31701.36
Volume/Capacity Ratio:	1.16
% Autos:	93%
% Trucks:	7%
Truck Volume:	2747.55
Crash Density:	99.81
Crash Severity:	87.72
Critical Crash Rate:	89.25
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	19
Existing Median Type (for Cost Estimation):	Divided
Pavement Condition Rating:	89
Actual Congested Speed:	37.93
Travel Time Index:	1.23

Project Benefits

Project Cross-Section:	6C - 6 Lane Freeway (27' Median with Jersey Barrier) with Paved Shoulders and 2 Lane One-Way Service Roads each side
Speed Limit:	60
Length (miles):	1.58
Facility Type:	Freeway
Access Control:	Full
Functional Classification:	Other Principal Arterial-Other Freeway
Terrain Type:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	4
Travel Time Savings for 30 Years (Total):	20945434.86
Travel Time Savings for 30 Years (Autos):	19381353.37
Travel Time Savings for 30 Years (Trucks):	1564081.49
Long-Term Employment:	305
% Change in Economy:	0.00021908
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	Yes
In CTP or LRTP?	No
CTP/LRTP Name:	
CTP/LRTP Completion Year:	
Submitted by:	Division 5

* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT Online tool and associated databases.

Project Ownership**Division**

Division	Percent	Regional Impact	Division Needs
Division 5	100%	54	0
	0%	0	0
	0%	0	0
TOTAL Division Points		54	0

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
Durham Chapel Hill Carrboro MPO	100%	100	0
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		100	0

Project Cost and Source

Construction Cost:	\$78,705,000	Cost Estimation Tool
Right-of-Way Cost:	\$27,067,000	Cost Estimation Tool
Utilities Cost:	\$3,248,000	Cost Estimation Tool
Total Project Cost:	\$109,020,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$109,020,000	